

01/07

#2



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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/991,681

DATE: 01/30/2002
 TIME: 17:26:06

Input Set : N:\Crf3\RULE60\09991681.txt
 Output Set: N:\CRF3\01302002\I991681.raw

SEQUENCE LISTING

C--> 4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: BILLING-MEDEL, PATRICIA
 7 COHEN, MAURICE
 8 COLPITTS, TRACEY L.
 9 FRIEDMAN, PAULA N.
 10 GORDON, JULIAN
 11 GRANADOS, EDWARD N.
 12 HODGES, STEVEN C.
 13 KLASS, MICHAEL R.
 14 KRATOCHVIL, JON D.
 15 ROBERTS-RAPP, LISA
 W--> 16 RUSSELL, JOHN C.
 W--> 17 STROUPE, STEPHEN D.

ENTERED

C--> 19 (ii) TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
 20 FOR DETECTING DISEASES OF THE PROSTATE
 22 (iii) NUMBER OF SEQUENCES: 33
 24 (iv) CORRESPONDENCE ADDRESS:
 25 (A) ADDRESSEE: Abbott Laboratories
 26 (B) STREET: 100 Abbott Park Road
 27 (C) CITY: Abbott Park
 28 (D) STATE: IL
 29 (E) COUNTRY: USA
 30 (F) ZIP: 60064-3500
 32 (v) COMPUTER READABLE FORM:
 33 (A) MEDIUM TYPE: Diskette
 34 (B) COMPUTER: IBM Compatible
 35 (C) OPERATING SYSTEM: DOS
 36 (D) SOFTWARE: FastSEQ for Windows Version 2.0
 38 (vi) CURRENT APPLICATION DATA:
 C--> 39 (A) APPLICATION NUMBER: US/09/991,681
 C--> 40 (B) FILING DATE: 26-Nov-2001
 41 (C) CLASSIFICATION:
 43 (vii) PRIOR APPLICATION DATA:
 44 (A) APPLICATION NUMBER: 09/065,383
 45 (B) FILING DATE:
 49 (viii) ATTORNEY/AGENT INFORMATION:
 50 (A) NAME: Becker, Cheryl L.
 51 (B) REGISTRATION NUMBER: 35,441
 52 (C) REFERENCE/DOCKET NUMBER: 6084.US.P1
 54 (ix) TELECOMMUNICATION INFORMATION:
 55 (A) TELEPHONE: 847/935-1729
 56 (B) TELEFAX: 847/938-2623

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57 (C) TELEX:

62 (2) INFORMATION FOR SEQ ID NO: 1:

64 (i) SEQUENCE CHARACTERISTICS:

65 (A) LENGTH: 232 base pairs

66 (B) TYPE: nucleic acid

67 (C) STRANDEDNESS: single

68 (D) TOPOLOGY: linear

71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

73	GGCGCATCCG AGCCATGGCC CAGCAGGTGT TTATGCTGGA CACCCAGTGC TCACCAAAGA	60
74	CACCAAACAA CTTTGACCAC GCTCAGTCTT GCCAGTCTAT TATTGAGCTG CCTCCTGATG	120
75	AAAAACCAAA TGGACACACC AAGAAAAGCG TGTCTTTCAG GGAAATTGTG GTGAGCCTGC	180
76	TGTCTCATCA GGTGTTACTC CAGAACTTAT ATGACATCTT GTTAGAAGAG TT	232

78 (2) INFORMATION FOR SEQ ID NO: 2:

80 (i) SEQUENCE CHARACTERISTICS:

81 (A) LENGTH: 289 base pairs

82 (B) TYPE: nucleic acid

83 (C) STRANDEDNESS: single

84 (D) TOPOLOGY: linear

87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

89	CTTTCAGGGA AATTGTGGTG AGCCTGCTGT CTCATCAGGT GTTACTCCAG AACTTATATG	60
90	ACATCTTGTT AGAAGAGTTT GTCAAAGGCC CCTCTCCTGG AGAGGAAAAG ACGATACAAG	120
91	TGCCAGAAGC CAAGCTGGCT GGCTTCCTCA GATACATCTC TATGCAGAAC TTGGCAGTCA	180
92	TATTGACCT GCTGCTGGAC TCTTATAGGA CTGCCAGGGA GTTTGACACC AGCCCCGGGC	240
93	TGAAGTGCCT GCTGAAGAAA GTGTCTGGCA TCGGGGGCGC CGCCAACCT	289

95 (2) INFORMATION FOR SEQ ID NO: 3:

97 (i) SEQUENCE CHARACTERISTICS:

98 (A) LENGTH: 264 base pairs

99 (B) TYPE: nucleic acid

100 (C) STRANDEDNESS: single

101 (D) TOPOLOGY: linear

104 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

106	GGCAGTCATA TTCGACCTGC TGCTGGACTC TTATAGGACT GCCAGGGAGT TTGACACCAG	60
107	CCCCGGGCTG AAGTGCCTGC TGAAGAAAGT GTCTGGCATC GGGGGCGCCG CCAACCTCTA	120
108	CCGCCAGTCT GCGATGAGTT TAACATTTAT TTCCACGCCC TGGTGTGTGC TGTTCTCACC	180
109	AATCAAGAAA ACATCACGGC CGAGCAAGTG AAGAAGGTCC TTTTGTGAGGA CGACGAGAGA	240
110	AGCACGGATT CTTCCAGCA GTGT	264

112 (2) INFORMATION FOR SEQ ID NO: 4:

114 (i) SEQUENCE CHARACTERISTICS:

115 (A) LENGTH: 260 base pairs

116 (B) TYPE: nucleic acid

117 (C) STRANDEDNESS: single

118 (D) TOPOLOGY: linear

121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

123	CATATTCGAC CTGCTGCTGG ACTCTTATAG GACTGCCAGG GAGTTTGACA CCAGCCCCGG	60
124	GCTGAAGTGC CTGCTGAAGA AAGTGTCTGG CATCGGGGGC GCCGCCAACC TCTACCGCCA	120
125	GTCTGCGATG AGCTTTAACA TTTATTTCCA CGCCCTGGTG TGTGCTGTTT TCACCAATCA	180
126	AGAAACCATC ACGGCCGAGC AAGTGAAGAA GGTCCTTTTT GAGGACGACG AGAGAAGCAC	240
127	GGATTCTTCC CAGCAGTGTT	260

129 (2) INFORMATION FOR SEQ ID NO: 5:

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131      (i) SEQUENCE CHARACTERISTICS:
132          (A) LENGTH: 199 base pairs
133          (B) TYPE: nucleic acid
134          (C) STRANDEDNESS: single
135          (D) TOPOLOGY: linear
138      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
140      CCACTGGGTC CCAGGGGCCA GGACTCCCCG CTGCTTCAGC GTCCCCAGCA CTTGATGGAC      60
141      CAAGGGCAAA TCGGCATTTC CTTACGCGCA GGCCCCGAGC TGCTGCGACA GGACAAGAGG      120
142      CCCCCTCAG GCTCCACCGG GAGCTCCCTC AGTGCTCGG TGAGAGACGC AGAAGCACAG      180
143      ATCAGGCATG GACCAACAT                                          199
145 (2) INFORMATION FOR SEQ ID NO: 6:
147      (i) SEQUENCE CHARACTERISTICS:
148          (A) LENGTH: 470 base pairs
149          (B) TYPE: nucleic acid
150          (C) STRANDEDNESS: single
151          (D) TOPOLOGY: linear
154      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
156      CATTCTTCA GCGCAGGCC CGAGCTGCTG CGACAGGACA AGAGGCCCCG CTCAGGCTCC      60
157      ACCGGGAGCT CCCTCAGTGT CTCGGTGAGA GACGCAGAAG CACAGATCCA GGCATGGACC      120
158      AACATGGTGC TAACAGTTCT CAATCAGATT CAGATTCTCC CAGACCAGAC CTTACGGCC      180
159      CTCCAGCCCG CAGTGTTCCC GTGCATCAGT CAGCTGACCT GTCACGTGAC CGACATCAGA      240
160      GTTCGCCAGG CTGCGAGGGA GTGGCTGGGC AGGGTGGGCC GTGTCTATGA CATCATTTGT      300
161      TAGCCGACTC CTGTTCTACT CTCCCACCAA ATAACAGTAG TGAGGGTTAG AGTCCTGCCA      360
162      ATACAGCTGT TGCATTTTCC CCACCACTAG CCCCACCTAA ACTACTACTA CTGTCTCAGA      420
163      GAACAGTGTT TCCTAATGTA AAAAGCCTTT CCAACCACTG ATCAGCATTG      470
165 (2) INFORMATION FOR SEQ ID NO: 7:
167      (i) SEQUENCE CHARACTERISTICS:
168          (A) LENGTH: 232 base pairs
169          (B) TYPE: nucleic acid
170          (C) STRANDEDNESS: single
171          (D) TOPOLOGY: linear
174      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
176      CACGGCCCTC CAGCCCGCAG TGTTCCCGTG CATCAGTCAG CTGACCTGTC ACGTGACCGA      60
177      CATCAGAGTT CGCCAGGCTG TGAGGGAGTG GCTGGGCAGG GTGGGCCGTG TCTATGACAT      120
178      CATTGTGTAG CCGACTCCTG TTCTACTCTC CCACCAAATA ACAGTAGTGA GGGTTAGAGT      180
179      CCTGCCAATA CAGCTGTTGC ATTTTCCCCA CCACTAGCCC CACTTAACT AC          232
181 (2) INFORMATION FOR SEQ ID NO: 8:
183      (i) SEQUENCE CHARACTERISTICS:
184          (A) LENGTH: 244 base pairs
185          (B) TYPE: nucleic acid
186          (C) STRANDEDNESS: single
187          (D) TOPOLOGY: linear
190      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
192      TAAGGTTTGT ATCTAGATGA CACAAACGAT ATTCTGATTT TGCACATTAT TATAGAAGAA      60
193      TCTATAATCC TTGATATGTT TCTAACTCTT GAAGTATATT TCCCAGTGCT TTTGCTTACA      120
194      GTGTTGTCCC CAAATGGGTC ATTTTCAAGG ATTACTCATT TGAAAACACT ATATTGATCC      180
195      ATTTGATCCA TCATTTAAAA AATAAATACA ATTCCTAAGG CAATATCTGC TGGTAAGTCA      240
196      AGCT
198 (2) INFORMATION FOR SEQ ID NO: 9:

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200 (i) SEQUENCE CHARACTERISTICS:

201 (A) LENGTH: 1771 base pairs

202 (B) TYPE: nucleic acid

203 (C) STRANDEDNESS: single

204 (D) TOPOLOGY: linear

207 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

```

209 GGCAGTCATA TTCGACCTGC TGCTGGACTC TTATAGGACT GCCAGGGAGT TTGACACCAG      60
210 CCCCAGGCTG AAGTGCCTGC TGAAGAAAGT GTCTGGCATC GGGGGCGCCG CCAACCTCTA      120
211 CCGCCAGTCT GCGATGAGCT TTAACATTTA TTCCACGCC CTGGTGTGTG CTGTTCTCAC      180
212 CAATCAAGAA ACCATCACGG CCGAGCAAGT GAAGAAGGTC CTTTTGAGG ACGACGAGAG      240
213 AAGCACGGAT TCTTCCAGC AGTGTTTCATC TGAGGATGAA GACATCTTTG AGGAAACCGC      300
214 CCAGGTCAGC CCCCAGAGAG GCAAGGAGAA GAGACAGTGG CGGGCACGGA TGCCCTTGCT      360
215 CAGCGTCCAG CCTGTCAGCA ACGCAGATTG GGTGTGGCTG GTCAAGAGGC TGCACAAGCT      420
216 GTGCATGGAA CTGTGCAACA ACTACATCCA GATGCACTTG GACCTGGAGA ACTGTATGGA      480
217 GGAGCCTCCC ATCTTCAAGG GCGACCCGTT CTTCATCCTG CCCTCCTTCC AGTCCGAGTC      540
218 ATCCACCCCA TCCACCGGGG GCTTCTCTGG GAAAGAAACC CCTCCGAGG ATGACAGAAG      600
219 CCAGTCCCGG GAGCACATGG GCGAGTCCCT GAGCCTGAAG GCCGGTGGTG GGGACCTGCT      660
220 GATGCCCCCC AGCCCCAAAG TGGAGAAGAA GGATCCCAGC CGGAAGAAGG AGTGGTGGGA      720
221 GAATGCGGGG AACAAAAATCT ACACCATGGC AGCCGACAAG ACCATTTCAA AGTTGATGAC      780
222 CGAATACAAA AAGAGGAAAC AGCAGCACAA CCTGTCCGCG TTCCCCAAAG AGGTCAAAGT      840
223 GGAGAAGAAA GGAGAGCCAC TGGGTCCCAG GGGCCAGGAC TCCCCGCTGC TTCAGCGTCC      900
224 CCAGCACTTG ATGGACCAAG GGCAAATGCG GCATTCTTC AGCGCAGGCC CCGAGCTGCT      960
225 GCGACAGGAC AAGAGGCCCC GCTCAGGCTC CACCGGGAGC TCCCTCAGTG TCTCGGTGAG     1020
226 AGACGCAGAA GCACAGATCC AGGCATGGAC CAACATGGTG CTAACAGTTC TCAATCAGAT     1080
227 TCAGATTCTC CCAGACCAGA CCTTCACGGC CCTCCAGCCC GCAGTGTTC CGTGCAATCAG     1140
228 TCAGCTGACC TGTCACGTGA CCGACATCAG AGTTCGCCAG GCTGTGAGGG AGTGGCTGGG     1200
229 CAGGGTGGGC CGTGTCTATG ACATCATTGT GTAGCCGACT CCTGTTCTAC TCTCCCACCA     1260
230 AATAACAGTA GTGAGGGTTA GAGTCCTGCC AATACAGCTG TTGCATTTTC CCCACCACTA     1320
231 GCCCCACTTA AACTACTACT ACTGTCTCAG AGAACAGTGT TTCCTAATGT AAAAAGCCTT     1380
232 TCCAACCACT GATCAGCATT GGGGCCATAC TAAGGTTTGT ATCTAGATGA CACAAACGAT     1440
233 ATTCTGATTT TGCACATTAT TATAGAAGAA TCTATAATCC TTGATATGTT TCTAACTT     1500
234 GAAGTATATT TCCAGTGCT TTTGCTTACA GTGTTGTCCC CAAATGGGTC ATTTTCAAGG     1560
235 ATTACTCATT TGAAAACACT ATATTGATCC ATTTGATCCA TCATTTAAAA AATAAATACA     1620
236 ATTCCTAAGG CAATATCTGC TGGTAAGTCA AGCTGATAAA CACTCAGACA TCTAGTACCA     1680
237 GGGATTATTA ATTGGAGGAA GATTTATGGT TATGGGTCTG GCTGGGAAGA AGACAACATAT     1740
238 AAATACATAT TCTTGGGTGT CATAATCAAG A                                     1771

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240 (2) INFORMATION FOR SEQ ID NO: 10:

242 (i) SEQUENCE CHARACTERISTICS:

243 (A) LENGTH: 2096 base pairs

244 (B) TYPE: nucleic acid

245 (C) STRANDEDNESS: single

246 (D) TOPOLOGY: linear

249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

```

251 GGCGCATCCG AGCCATGGCC CAGCAGGTGT TTATGCTGGA CACCCAGTGC TCACCAAAGA      60
252 CACCAAACAA CTTTGACCAC GCTCAGTCCT GCCAGTCAT TATTGAGCTG CCTCCTGATG     120
253 AAAAACCAAA TGGACACACC AAGAAAAGCG TGTCTTTTCAG GGAAATTGTG GTGAGCCTGC     180
254 TGTCTCATCA GGTGTTACTC CAGAACTTAT ATGACATCTT GTTAGAAGAG TTTGTCAAAG     240
255 GCCCCTCTCC TGGAGAGGAA AAGACGATAC AAGTGCCAGA AGCCAAGCTG GCTGGCTTCC     300
256 TCAGATACAT CTCTATGCAG AACTTGGCAG TCATATTCGA CCTGCTGCTG GACTCTTATA     360

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257  GGACTGCCAG GGAGTTTGAC ACCAGCCCCG GGCTGAAGTG CCTGCTGAAG AAAGTGTCTG 420
258  GCATCGGGGG CGCCGCCAAC CTCTACCGCC AGTCTGCGAT GAGCTTTAAC ATTTATTTCC 480
259  ACGCCCTGGT GTGTGCTGTT CTCACCAATC AAGAAACCAT CACGGCCGAG CAAGTGAAGA 540
260  AGGTCCTTTT TGAGGACGAC GAGAGAAGCA CGGATTCTTC CCAGCAGTGT TCATCTGAGG 600
261  ATGAAGACAT CTTTGAGGAA ACCGCCCAGG TCAGCCCCCC GAGAGGCAAG GAGAAGAGAC 660
262  AGTGGCGGGC ACGGATGCCC TTGCTCAGCG TCCAGCCTGT CAGCAACGCA GATTGGGTGT 720
263  GGCTGGTCAA GAGGCTGCAC AAGCTGTGCA TGGAAGTGTG CAACAACACT ATCCAGATGC 780
264  ACTTGACCTT GGAGAACTGT ATGGAGGAGC CTCCCATCTT CAAGGGCGAC CCGTTCTTCA 840
265  TCCTGCCCTC CTTCCAGTCC GAGTCATCCA CCCCATCCAC CGGGGGCTTC TCTGGGAAAG 900
266  AAACCCCTTC CGAGGATGAC AGAAGCCAGT CCGGGGAGCA CATGGGCGAG TCCCTGAGCC 960
267  TGAAGGCCGG TGGTGGGGAC CTGCTGCTGC CCCCCAGCCC CAAAGTGGAG AAGAAGGATC 1020
268  CCAGCCGGAA GAAGGAGTGG TGGGAGAATG CGGGGAACAA AATCTACACC ATGGCAGCCG 1080
269  ACAAGACCAT TTCAAAGTTG ATGACCGAAT ACAAAAAGAG GAAACAGCAG CACAACCTGT 1140
270  CCGCGTTCCC CAAAGAGGTC AAAGTGGAGA AGAAAGGAGA GCCACTGGGT CCCAGGGGCC 1200
271  AGGACTCCCC GCTGCTTCAG CGTCCCCAGC ACTTGATGGA CCAAGGGCAA ATGCGGCATT 1260
272  CCTTCAGCGC AGGCCCCGAG CTGCTGCGAC AGGACAAGAG GCCCCGCTCA GGCTCCACCG 1320
273  GGAGCTCCCT CAGTGTCTCG GTGAGAGACG CAGAAGCACA GATCCAGGCA TGGACCAACA 1380
274  TGGTGCTAAC AGTTCTCAAT CAGATTGAGA TTCTCCAGA CCAGACCTTC ACGGCCCTCC 1440
275  AGCCCGCAGT GTTCCCGTGC ATCAGTCAGC TGACCTGTCA CGTGACCGAC ATCAGAGTTC 1500
276  GCCAGGCTGT GAGGGAGTGG CTGGGCAGGG TGGGCCGTGT CTATGACATC ATTGTGTAGC 1560
277  CGACTCCTGT TCTACTCTCC CACCAAATAA CAGTAGTGAG GGTTAGAGTC CTGCCAATAC 1620
278  AGCTGTTGCA TTTTCCCCAC CACTAGCCCC ACTTAAACTA CTACTACTGT CTCAGAGAAC 1680
279  AGTGTTCCTT AATGTAAAAA GCCTTTCCAA CCACTGATCA GCATTRGGGC CATACTAAGG 1740
280  TTTGTATCTA GATGACACAA ACGATATTCT GATTTTGCAC ATTATTATAG AAGAATCTAT 1800
281  AATCCTTGAT ATGTTTCTAA CTCTTGAAGT ATATTTCCCA GTGCTTTTGC TTACAGTGTT 1860
282  GTCCCCAAAT GGGTCATTTT CAAGGATTAC TCATTTGAAA ACACTATATT GATCCATTTG 1920
283  ATCCATCATT TAAAAAATAA ATACAATTCC TAAGGCAATA TCTGCTGGTA AGTCAAGCTG 1980
284  ATAAACACTC AGACATCTAG TACCAGGGAT TATTAATTGG AGGAAGATTT ATGGTTATGG 2040
285  GTCTGGCTGG GAAGAAGACA ACTATAAATA CATATTCTTG GGTGTCATAA TCAAGA 2096

```

287 (2) INFORMATION FOR SEQ ID NO: 11:

289 (i) SEQUENCE CHARACTERISTICS:

290 (A) LENGTH: 68 base pairs

291 (B) TYPE: nucleic acid

292 (C) STRANDEDNESS: single

293 (D) TOPOLOGY: linear

296 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

```

298  AGCTCGGAAT TCCGAGCTTG GATCCTCTAG AGCGGCCGCC GACTAGTGAG CTCGTCGACC 60
299  CGGGAATT 68

```

301 (2) INFORMATION FOR SEQ ID NO: 12:

303 (i) SEQUENCE CHARACTERISTICS:

304 (A) LENGTH: 68 base pairs

305 (B) TYPE: nucleic acid

306 (C) STRANDEDNESS: single

307 (D) TOPOLOGY: linear

310 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

```

312  AATTAATTCC CGGGTCGACG AGCTCACTAG TCGGCGGCCG CTCTAGAGGA TCCAAGCTCG 60
313  GAATTCCG 68

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315 (2) INFORMATION FOR SEQ ID NO: 13:

317 (i) SEQUENCE CHARACTERISTICS:

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09991681.txt

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L:4 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:19 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:39 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:40 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:16 M:259 W: Allowed number of lines exceeded, (i) APPLICANT:
L:17 M:259 W: Allowed number of lines exceeded, (i) APPLICANT:
L:505 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
L:584 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
L:603 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:622 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:641 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31